Facility name: U.S. Dept. of Agriculture Experimental Lab.
Location: Yakima, WA., 3706 West Nob Hill Blvd., 98902
EPA Region:10
Person(s) in charge of the facility: Dr. Berdett, U.S.D.A., Director
Name of Reviewer: H. Aldis Date: 7/30/82
General description of the facility: (For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)
Agriculture Experimental Laboratory handling small quantities of
all sorts of pesticides and disposing of them by flushing into a
septic tank drain field.
Scores: $S_{M} = (S_{GW} = 48.12 S_{SW} = 11.16 S_{a} = 1$
Scores: $S_{M} = (S_{gw} = 48.12S_{sw} = 11.16S_{a} = 11$
$s_{DC} = 0$

FIGURE 1 HRS COVER SHEET



	Ground Water Route Work Sheet Assigned Value Multi- Max. Ref.										
	Rating Factor		Assigned Value (Circle One)	Max. Score	Ref. (Section)						
1	Observed Release	•	0 45	1		45	3.1				
	If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.										
2	Route Characteris Depth to Aquifer Concern		0 1 2 3	2	6	6	3.2				
	Net Precipitation Permeability of t Unsaturated Zo	he	0 ① 2 3 0 ① 2 3	1	1	3 3					
	Physical State	ne	0 1 2 3	1	3	3					
			Total Route Characteristics Score		11	15					
3	Containment		0 1 2 3	1	3	3	3.3				
4	Waste Characteris Toxicity/Persiste Hazardous Waste Quantity	ence	0 3 6 9 12 15 (18) 0 (1) 2 3 4 5 6 7 8	1	18	18 8	3.4				
-			Total Waste Characteristics Score		19	26					
5	Targets Ground Water Us Distance to Near Well/Population Served	est	0 1 2 3 0 4 6 8 10 12 16 18 20 24 30 32 35 40	3	9	9 40	3.5				
			Total Targets Score		44	49					
	=	nultiply [ultiply [2	1 x 4 x 5 2 x 3 x 4 x 5		27588	57,330					
7	Divide line 6 by	57,330 a	and multiply by 100	Sgw=	48.12						

FIGURE 2
GROUND WATER ROUTE WORK SHEET

	Surface Water Route Work Sheet											
	Rating Factor	Assigned Value (Circle One)		lulti- olier	Score	Max. Score	Ref. (Section)					
1	Observed Release	(0) 45		1		45	4.1					
	If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.											
2	Route Characteristics Facility Stope and Inte	ervening 0 1 2 3		1	0	3	4.2					
	1-yr. 24-hr. Rainfall Distance to Nearest S Water	0 1 2 3 urface 0 1 2 3		1	04	3 6						
	Physical State	0 1 2 3		1	3	3						
		Total Route Characteristics Sc	core		7	15						
3	Containment	0 1 2 3		1	3	3	4.3					
4	Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity	0 3 6 9 12 15 18 0 1 2 3 4 5 6		1	18	18 8	4.4					
		Total Waste Characteristics Sc	core		19	26						
5	Targets Surface Water Use Distance to a Sensitive Environment Population Served/Dis		:	3 2	60	9 6 40	4.5					
	to Water Intake Downstream	12) 16 18 20 24 30 32 35 40										
		Total Targets Score			18	55						
		ly 1 x 4 x 5 / 2 x 3 x 4 x 5		1	7182	64,350						
7 (Divide line 6 by 64,35	50 and multiply by 100	Ssv	w =	11.16							

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

			Air Route	Work Sheet				
	Rating Factor		Assigned (Circle (Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release	2	6	45	1		45	5.1
	Date and Location	:						
	Sampling Protocol	:						
			O. Enter on line (5)	.				
2	Waste Characteris Reactivity and Incompatibility Toxicity Hazardous Waste Quantity		0 1 2 3 0 1 2 3 0 1 2 3		1 3 8 1		3 9 8	5.2
			Total Waste Chara	cteristics Sco	re		20	
-	Targets Population Within 4-Mile Radius Distance to Sensi Environment		0 9 12 15 21 24 27 30 0 1 2 3		1		30 6	5.3
	Land Use		0 1 2 3		1		3	
4	Multiply 1 x 2) × 3	Total Targe	ts Score			39	
	Divide line 4 by		nd multiply by 100		Sa=			

FIGURE 9
AIR ROUTE WORK SHEET

	S	s²
Groundwater Route Score (Sgw)	48.12	231553
Surface Water Route Score (S _{SW})	11.16	124.55
Air Route Score (Sa)	U	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		2440.08
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		49.46
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		28.55

FIGURE 10 WORKSHEET FOR COMPUTING S_{M}

	Fire	e and	d Ex	plos	sior	n Work	Sheet				
Rating Factor Assigned Value (Circle One) Multi-								Score	Max. Score	Ref. (Section)	
1 Containment		1				3		1		3	7.1
Waste Characteristic Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity		0 0 1 0 1 0 1	2	3	4	5 6	7 8	1 1 1 1 1		3 3 3 3 8	7.2
	Total W	aste	Chá	arac	teri	stics \$	Score			20	
Targets Distance to Nearest Population Distance to Nearest		0 1		3	4	5		1		5	7.3
Building Distance to Sensitiv Environment	e	0 1	2	3				1		3	
Land Use Population Within 2-Mile Radius		0 1			4	5		1		3 5	
Buildings Within 2-Mile Radius) 1	2	3	4	5		1		5	
									1		
	Т	otal	Targ	gets	Sc	ore	_			24	
4 Multiply 1 x 2	× 3									1,440	
5 Divide line 4 by 1.	440 and multip	oly b	y 10	00				SFE =	C		

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

_	Rating Factor			gne				Multi- plier	Score	Max. Score	Ref. (Section
1	Observed Incident	0					15	1		45	8.1
	If line 1 is 45, proceed to		1								
2	Accessibility	0	1	2	3			1		3	8.2
3	Containment	0		15				1		15	8.3
4	Waste Characteristics Toxicity	0	1	2	3			5		15	8.4
5	Targets Population Within a 1-Mile Radius	0	1	2	3	4	5	4		20	8.5
		Tota	al T	arg	ets	Sc	ore		-	32	
_	f line 1 is 45, multiply 1								1		

FIGURE 12 DIRECT CONTACT WORK SHEET